

ADDITIONAL CLAIMS

13. The antireflection film according to claim 7, wherein the film thickness of the fine particle layer is set in a range of 50 nm to 300 nm.

15. The antireflection film according to claim 7, wherein fine particles used for the fine particle layer are at least not less than one kind of fine particles selected from the group consisting of fine particles of polymers and silica fine particles, and the average particle size thereof is preferably set in a range of 50 nm to 300 nm.

17. The antireflection film according to claim 7, wherein the fine particle layer is formed by at least two layers, with the film thickness of one layer being set in a range of 50 nm to 300 nm and the film thickness of the other layer being set in a range 1 nm to 50 nm.

19. The antireflection film according to claim 7, wherein the volume percentage of the fine particles in the fine particle layer is set in a range of 10 volume % to 90 volume %.

21. The antireflection film according to claim 7, wherein the bulk refractive index of the fine particle layer is set in a ranged of 1.05 to 1.70.

28. The process for producing an antireflection film according to claim 25, wherein the charge applying process for applying a charge to the substrate surface is a process for forming on the substrate surface a polymer electrolyte film made of a multi-layered film formed by sequential deposition at least not less than two kinds of polymer electrolytes having mutually different polarities and/or polymer electrolyte film made of a cross-linked polymer electrolyte.

29. The process for producing an antireflection film according to claim 26, wherein the charge applying process for applying a charge to the substrate surface is a process for forming on the substrate surface a polymer electrolyte film made of a multi-layered film formed by sequential deposition at least not less than two kinds of polymer electrolytes having mutually different polarities and/or polymer electrolyte film made of a cross-linked polymer electrolyte.

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